

The Engineering and Public Policy additional major degree is intended to complement the technical nature of the traditional engineering degree with a set of courses focused on the connection between technical issues and society/policy. The EPP additional major curriculum is designed to be completed in the usual 8-semester time frame of an undergraduate degree. The columns on the left show the course requirements for the traditional major, while the columns on the right show the corresponding course requirements for the traditional major with the EPP additional major.

Chemical Engineering**Chemical Engineering and Engineering and Public Policy**

Engineering Courses		Units	Engineering Courses		Units
06-100	Introduction to Chemical Engineering	12	06-100	same	12
xx-xxx	Other Introductory Engineering Elective	12	19-101	<i>Introduction to Engineering and Public Policy</i>	12
06-222	Sophomore Chemical Engineering Seminar	1	06-222	same	1
06-223	Chemical Engineering Thermodynamics	12	06-223	same	12
06-261	Fluid Mechanics	9	06-261	same	9
06-262	Mathematical Methods of Chemical Engineering	9	06-262	same	9
09-221	Laboratory I: Introduction to Chemical Analysis	12	09-221	same	12
06-310	Molecular Foundations of Chemical Engineering	9	06-310	same	9
06-323	Heat and Mass Transfer	9	06-323	same	9
06-324	Computational Optimization and ML for ChemE	12	06-324	same	12
06-361	Unit Operations of Chemical Engineering	9	06-361	same	9
06-362	Ehtics and Safety for ChemE	2	06-362	same	2
06-363	Transport Process Laboratory	9	06-363	same	9
06-364	Chemical Reaction Engineering	9	06-364	same	9
09-21x	Organic Chemistry I OR Modern Organic Chemistry	9	09-21x	same	9
06-421	Chemical Process Systems Design	12	06-421	same	12
06-423	Unit Operations Laboratory	9	06-423	same	9
06-463	Chemical Product Design	9	06-463	same	9
06-464	Chemical Engineering Process Control	9	06-464	same	9
Math and Science Courses		Units	Math and Science Courses		Units
21-120	Differential and Integral Calculus	10	21-120	same	10
21-122	Integration and Approximation	10	21-122	same	10
21-254	Linear Algebra & Vector Calculus	11	21-254	same	11
33-141	Physics I for Engineering Students	12	33-141	same	12
33-142	Physics II for Engineering and Physics Students	12	33-142	same	12

15-11x	Principles of Computing/Fund. of Programming	10	15-11x	same	10
09-105	Introduction to Modern Chemistry I	10	09-105	same	10
09-106	Modern Chemistry II	10	09-106	same	10
xx-xxx	Advanced Science/Math Elective	9	36-220	<i>Engineering Statistics and Quality Control</i>	9

CIT General Education Courses		Units	CIT/EPP Non-technical courses		Units
99-101	Core @ Carnegie Mellon	3	99-101	same	3
39-210	Experiential Learning I	0	39-210	same	0
39-220	Experiential Learning II	0	39-220	same	0
39-310	Experiential Learning III	0	39-310	same	0
76-10x	First-Year Writing Requirement	9	76-10x	same	9
	Social Analysis and Decision Making (SDM)	9		<i>EPP-approved Decision Science course</i>	9
	Writing and Expression (W&E)	9		<i>EPP-approved Writing & Communications course</i>	9
	Innovation & Internationalization (I&I)	9		same	9
	Peoples, Places, and Cultures (PPC)	9		same	9
	General Education Elective [1]	9		same	9
	General Education Elective [2]	9		<i>EPP-approved Economics course</i>	9
	General Education Elective [3]	9	19-351	<i>Applied Methods for Technology-Policy Analysis</i>	9

Free Electives		Units	Free Electives		Units
		45	19-201	<i>Professional Issues in Engineering, Science, Technology and Public Policy</i>	1
				<i>EPP Technology-Policy Elective [1]</i>	var
				<i>EPP Technology-Policy Elective [2]</i>	var
				<i>EPP Technology-Policy Elective [3]</i>	var
			19-451	<i>EPP Projects I</i>	12
			19-452	<i>EPP Projects II</i>	12
				free elective units to meet 45 unit minimum	var

Total Units (minimum) 388

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EPP Technology-Policy Electives are courses that address the connections between technology and society. Students work with their advisors to select approved courses appropriate to their interests. Research credits, in EPP or another department, can be used for EPP Technology-Policy Elective credits with prior approval. EPP Technology-Policy Electives may fulfill General Education requirements.